



HERRERA, STAFFORD & ASSOCIATES

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Sharon Joy Lagunas

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Associate Engineer

Herrera, Stafford and Associates, El Paso, TX

04/2010 to Present

- Perform corrosion analysis on Electron Microscopy Corrosion Coupons for natural gas pipelines. The process includes receiving, cleaning, optical and SEM examinations.

Tutor

Socorro High School, El Paso, TX

09/2009 to 05/2012

- Tutor for the Achievement Via Individual Determination (AVID) Program. This is a college readiness program where students learn note-taking, organization, and research skills.

Teaching Assistant

The University of Texas at El Paso, El Paso, TX

08/2009 to 05/2011

- Served as a resource to the students of basic engineering course, Introduction to Materials Science and Engineering. As well as grading hundreds of students' homework, I would also be available for tutoring if the students had any questions on the material.

Intern Metallurgical Engineer

El Paso Corporation, El Paso, TX

02/2008 to 02/2009

- Analyzed different projects or failures to determine the cause for failure. While performing the failure analysis process I was being trained with different equipment including the optical emission spectroscopy and scanning electron microscope. Over the course of one year, I completed over ten failure analysis projects, while helping to decrease and eliminate a large backlog on corrosion coupons needing analysis. This experience went into great depth with fracture mechanics and analysis.

Metallurgical Lab Technician

Phelps Dodge Copper Products, El Paso, TX

09/2003 to 05/2006

- Perform quality testing as well as daily, weekly and monthly data logging and input. I at times managed the lab independently while all co-workers were away. What I took most from this experience was the realization of not taking a job for granted and proving yourself valuable to the company by taking initiative.

Administrative Assistant

Met-Tech Steel Fabrication, Vinton, TX

09/2003 to 05/2006

- Worked as administrative assistant, and estimator in training. Called contractors for bids and prices, ran plans, prepared delivery tickets, and proposals, and packaged items for shipment. Became acquainted with reading plans and drawings so able to measure the amount of material necessary to accomplish the job.

Recruiter

University of Texas El Paso Metallurgical Department, El Paso, TX

02/2005 to 06/2006

- Had the joy of contacting local schools and teachers in an effort to spread the word about UTEP and metallurgical engineering. Organize material to hand out to students and set up presentations to relate to young minds as well as handle equipment, i.e. mini-casting, liquid nitrogen, etc. Also, coordinate tours in the department for visiting field trips.

Education

Masters of Science - Metallurgical and Materials Engineering

Projected: 12/2013

University of Texas at El Paso

- GPA: 3.65/4.0

Bachelors of Science - Metallurgical and Materials Engineering

05/2006

University of Texas at El Paso

- GPA: 3.06/4.0

Community and Professional Affiliations (Current and Past)

- Alpha Sigma Mu (Metallurgical Engineering Honor Society): Since 2009
- Engineering Student Leadership Council (ESLC): Spring of 2006
- MentorOne Program: Since 2008
- Youth Leader at Church - teach weekly ages 13 – 20yrs

Skills and Training

- Metallurgical lab technician
- OSHA training and development
- Teaching classes to peers and employees
- Quality testing through spectroscopy and oxygen and sulfur testing
- Estimating and job bids in areas of reinforcing steel for the city
- Sample preparation and optical metallography
- Scanning Electron Microscope (SEM)
- Optical Emission Spectroscopy